

**I claim:**

1. A hand-free device equipped with expansion function modules comprising a hand-free main body and at least one connection unit for connecting at least one expansion function module, wherein:

5 the hand-free main body includes a module detection and control  
unit for detecting external variations of the expansion function  
module and controlling the expansion function module, and  
providing signals to a central processing unit, and through a  
signal switch unit to perform signal switching for the connected  
10 different expansion function modules; and

the expansion function module includes at least:

a control unit for controlling and coordinating operations of the expansion function module and outputting signals, and coordinating operations of the hand-free main body;

15 a coding/decoding unit for matching operations and coordination  
of the signal switch unit of the hand-free main body;

an input unit serving as an input end for linking to the connection unit of the hand-free main body:

an output unit serving as an output end to output information of

20 the expansion function module; and

an expansion function unit containing preset expansion function data.

2. The hand-free device equipped with expansion function modules of claim 1, wherein the input unit is a signal line.
3. The hand-free device equipped with expansion function modules of claim 1, wherein the input unit is a human machine interface.
- 5 4. The hand-free device equipped with expansion function modules of claim 1, wherein the output unit is a display device.
5. The hand-free device equipped with expansion function modules of claim 1, wherein the output unit is a signal line.
6. The hand-free device equipped with expansion function modules of claim 1, wherein the output unit is a LCD.
- 10 7. The hand-free device equipped with expansion function modules of claim 1, wherein the preset expansion function data contained in the expansion function unit are selectively for GPS, audio control, or car phone.
- 15 8. The hand-free device equipped with expansion function modules of claim 7, wherein the preset expansion function data contained in the expansion function unit are for car phone function, and the expansion function unit including a power supply management unit for controlling power supply for the expansion function module, a GSM module unit for matching communication modules of mobile phone chips, and a DTMF unit to allow the expansion function unit

dialing telephone through audio frequency.